

- A7*
- (b) separating said first product into said light olefins and a heavy hydrocarbon fraction [comprising] including heavy hydrocarbons;
- (c) feeding said heavy hydrocarbon fraction to a separate auxiliary reactor; and
- (d) contacting said heavy hydrocarbon fraction with a second molecular sieve catalyst in said separate auxiliary reactor under conditions effective to promote conversion of said heavy hydrocarbons to light olefins.

*23*  
21. (New) The method of claim 2 wherein said second molecular sieve catalyst comprises a zeolite.

*AJ 24*  
22. (New) The method of claim 4 wherein said second molecular sieve catalyst comprises a zeolite.

*25*  
23. (New) A method for increasing light olefin yield during conversion of oxygenates to olefins comprising:

- (a) contacting a feed including at least one oxygenate in a primary reactor with a silicoaluminophosphate selected from the group consisting of SAPO-44, SAPO-34, SAPO-18, and SAPO-17, under first conditions effective to produce a first product including light olefins;
- (b) separating said first product into said light olefins and a heavy hydrocarbon fraction including heavy hydrocarbons;
- (c) feeding said heavy hydrocarbon fraction to a separate auxiliary reactor; and
- (d) contacting said heavy hydrocarbon fraction with ZSM-5 in said separate auxiliary reactor under conditions effective to promote conversion of said heavy hydrocarbons to light olefins.

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~~23~~

24. (New) The method of claim ~~21~~ wherein said zeolite is ZSM-5.

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25. (New) The method of claim ~~22~~ wherein said zeolite is ZSM-5.

~~28~~

26. (New) The method of claim 1 wherein said non-zeolitic molecular sieve catalyst comprises a microporous framework including pores having a diameter in the range of from about 5 to about 10 Angstroms.

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27. (New) The method of claim 2 wherein said first, non-zeolitic molecular sieve catalyst and said second molecular sieve catalyst comprise a microporous framework including pores having a diameter in the range of from about 5 to about 10 Angstroms.

~~30~~

28. (New) The method of claim 1 wherein said non-zeolitic molecular sieve catalyst comprises a microporous framework including pores having a diameter less than about 5 Angstroms.

~~31~~

29. (New) The method of claim 2 wherein said first, non-zeolitic molecular sieve catalyst comprises a microporous framework including pores having a diameter less than about 5 Angstroms.

~~32~~

30. (New) The method of claim 3 wherein said non-zeolitic molecular sieve catalyst comprises a microporous framework including pores having a diameter less than about 5 Angstroms.

~~33~~

31. (New) The method of claim 4 wherein said first, non-zeolitic molecular sieve catalyst comprises a microporous framework having a diameter less than about 5 Angstroms.

~~34~~

32. (New) The method of claim 1 wherein said heavy hydrocarbon fraction

consists essentially of said heavy hydrocarbons.

*35*  
33. (New) The method of claim 2 wherein said heavy hydrocarbon fraction consists essentially of said heavy hydrocarbons.

*36*  
34. (New) The method of claim 3 wherein said heavy hydrocarbon fraction consists essentially of said heavy hydrocarbons.

*37*  
35. (New) The method of claim ~~23~~ <sup>25</sup> wherein said heavy hydrocarbon fraction consists essentially of said heavy hydrocarbons.

*38*  
36. (New) A method for increasing light olefin yield during conversion of oxygenates to olefins comprising:

- (a) contacting a feed including an oxygenate in a primary reactor with a non-zeolitic molecular sieve catalyst under conditions effective to produce a product including light olefins;
- (b) separating said product into said light olefins and a heavy hydrocarbon fraction including heavy hydrocarbons; and
- (c) recycling said heavy hydrocarbon fraction to said primary reactor.

*39*  
37. (New) The method of claim 5, wherein said second non- zeolitic molecular sieve catalyst is SAPO-34.

*40*  
38. (New) The method of claim 6 wherein said second molecular sieve catalyst is SAPO-34.

#### REMARKS

The applicant respectfully requests that the above amendments be entered. The above amendments add no new matter and are intended to further